ERGONOMICS RISK ANALYSIS

Employee Information:				
Employee Number:	Name: Ronnei	il Estrallado . Date:	2/04/03	
L-code: Building:22 Room:Hallway Email:				
Division: Group: Job Title:				
Job Description: Sat Sampling				
Evaluator:				
Name: Cheryl Ben	nett . L-Code: L-438	. Email: bennett13@ll	nl.gov .	
Supervisor:				
	L-Code:	. Email:		
Awkward Postures				
Neck	☐ No Problem Observed	Specific Job Tasks:	Solutions:	
1,002	▼ Twisted (rotated)	•	Investigate devices that might	
		Looking overhead twisting to	allow taking swipes from a	
	☑ Tilted Forward	see behind objects	more neutral position (e.g.	
	✓ Lateral (bending side to side)✓ Other		long handled grabber)	
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Wrist	☐ No Problem Observed or Reported	Specific Job Tasks:	Solutions: See above;	
	⊠ Flexion	Handling swipes wiping with	Investigate alternative ways	
		cloth holding meter using	of supporting meter	
		broom sweep		
	■ Radial Deviation			
	Other	g x . m .		
Elbows/Forearm	☐ No Problem Observed or Reported	Specific Job Tasks:	Solutions: Investigate devices that might	
		Handling swipes or cloth,	allow taking swipes from a	
	☑ Frexed (arm straight)☑ Extended (arm straight)	Climbing ladder using vroom	more neutral position (e.g.	
	☑ Winged (away from body)	for rad swipes	long handled grabber);	
	Supination (palm up)		Investigate alternative ways	
	☑ Pronation (palm down)		of supporting meter	
	✓ Sustained extension/flexion☐ Other			
Back	☐ Other☐ No Problem Observed or	Specific Job Tasks:	Solutions:	
Dack	Reported	Specific 300 Tusks.	Investigate devices that might	
	□ Slouched	Taking swipes twisting to	allow taking swipes from a	
	☐ Inadequate Lumbar Support	reach broom swipe on walls	more neutral position (e.g.	
	▼ Twisted	reaching, bending and twisting	long handled grabber); ladder	
	☑ Other - hyper extended,	for floor swipes;	with platform may assist in	
Shoulders	forward, □ No Problem Observed or	Specific Job Tasks:	reducing load on back Solutions:	
Shoulders	Reported	Specific 300 Tasks.	Investigate devices that might	
		Overhead swipes	allow taking swipes from a	
	⊠ Reaching Behind	-	more neutral position (e.g.	
	☐ Raised/above shoulder height	Reaching side and overhead,	long handled grabber)	
_	☑ Other –	around objects	0.1.2	
Legs	☐ Insufficient leg clearance	Specific Job Tasks:	Solutions:	
	✓ Stance✓ Other – Stabilizing on ladder	Working on ladder, squatting	Investigate devices that might allow taking swipes from a	
	- Julei – Stavilizing Oil laudel	for floor swipes	more neutral position (e.g.	
			long handled grabber) and	
			ladders with platform to	
			provide more stability	

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Other	Work surface height	Specific Job Tasks:	Solutions: Investigate devices that might allow taking swipes from a more neutral position (e.g. long handled grabber)
Repetitive Activities (quantify)	Swipes of overhead pipes using broom for radiation swipes	Specific Job Tasks: Taking swipes overhead, on walls and floor	Solutions: Consider Pre-work warm-up and periodic stretching program
Static Postures (quantify)	Holding meter over surface of floor or wall, Carrying meter, taking swipes	Specific Job Tasks: Holding tasks	Solutions: Warm-up/stretching may help
Contact Stress/Pressure (quantify)	Monitor must be held above surface to avoid contact with trying surface.	Specific Job Tasks:	Solutions: Warm-up/stretching may help; Education to avoid excess tension or squeezing
Work Style/Flow	Routine includes alternating between deskwork, talking swipes throughout the day	Specific Job Tasks:	Solutions: In contaminated areas where suited up- Investigate ways to make it easier to take mini- breaks.
Environment (Organization, access, layout, hazards, lighting, temperature)	Lighting airborne particles wearing respirator, Tyvek suits, hard hats, gloves. Low temperature. Full faced power pack respirator.	Specific Job Tasks: Taking swipes	Solutions: Bump cap rather than a hard hat (already ordered).
Vibration (Quantify)	Jack hammer, Glove boxes	Demolition	Need to observe operation to make suggestions
Force (Quantify)	Jack Hammer, Glove Boxes	Specific Job Tasks:	Solutions: Could investigate forces needed and used.
Tools & Equipment	Radiation meters, Swipe sample bottles, Radiation wipes, Brooms, Ladders	Specific Job Tasks:	Solutions: Investigate telescoping handles to avoid having a longer handle than necessary on brooms and ladders with platform for more stability
Other	Balance: Must stabilize ladder while reaching.	Specific Job Tasks:	Solutions: Investigate ladders with platform for more stability

ERGONOMICS RISK ANALYSIS

Summary:

1. Equipment solutions include:

Investigating telescoping handles to avoid having a longer handle than necessary on brooms

Investigating devices that might allow taking swipes from a more neutral position (e.g. long

handled grabber)

Ladders with platform for more stability

2. Educational solutions include:

Basic ergonomic principles as applied to these job tasks

Body mechanics

A pre-work warm-up and periodic stretching program

Education to avoid excess tension in work activities

3. Areas for further observation and analysis include:

Demolition jobs

Force requirements of jobs and ways to reduce required forces